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Abidi, S.S.R.; Ong, J.;
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Myung-Sup Kim; Mi-Jeong Choi; Hong,
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 Pinheiro, E.; Bianchini, R.;
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- **25. CLUSTER-a package for cluster analysis**
Popchev, I.; Peneva, V.;
Engineering in Medicine and Biology Society
Annual International Conference of the IEEE
4-7 Nov 1988 Page(s):1466 - 1467 vol.3
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1 [Focusing processor policies via critical-path prediction](#)

Brian Fields, Shai Rubin, Rastislav Bodík

May 2001 **ACM SIGARCH Computer Architecture News**, **Proceeding annual international symposium on Computer architecture**, 29 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.10 MB\)](#)

Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

Although some instructions hurt performance more than others, current processors apply scheduling and speculation as if each instruction was equally costly. This paper can be naturally expressed through the *critical path*: if we could predict the *critical path*, egalitarian policies could be replaced with cost-sensitive strategies that vary dynamically and are increasingly effective as processors become more parallel.


This paper introduces a hardware predictor of instruction criticality ...

2 [Genetic algorithms with cluster analysis for production simulation](#)


Robert Entriken, Siegfried Vössner

December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press


Full text available:  pdf(847.38 KB) Additional Information: [full citation](#), [refe](#)

3 Register allocation across procedure and module boundaries

 Vatsa Santhanam, Daryl Odnert

June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLA
on Programming language design and implementation PLD]**
Issue 6

Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [abst](#)
[citing](#), [index ter](#)


This paper describes a method for compiling programs using interproced allocation. A strategy for handling programs built from multiple modules well as algorithms for global variable promotion and register spill code r algorithms attempt to address some of the shortcomings of previous inter allocation strategies. Results are given for an implementation on a single based architec ...

4 Broadcast protocols to support efficient retrieval from databases by mobile

 Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar

March 1999 **ACM Transactions on Database Systems (TODS)**, Volume

Publisher: ACM Press

Full text available:  pdf(638.48 KB) Additional Information: [full citation](#), [abst](#)
[citing](#), [index ter](#)


Mobile computing has the potential for managing information globally. I issues in mobile computing have received some attention in recent times adaptive braodcast protocols has been posed as an important probllem. S employed by database servers to decide on the content of bbroadcasts dy response to client mobility and demand patterns. In this paper we design also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energ mobile databases

5 Scheduling and page migration for multiprocessor compute servers

- ◆ Rohit Chandra, Scott Devine, Ben Verghese, Anoop Gupta, Mendel Rosen
November 1994 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems**
Proceedings of the sixth international conference on Architecture
support for programming languages and operating systems
Volume 29 , 28 Issue 11 , 5

Publisher: ACM Press



Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

Several cache-coherent shared-memory multiprocessors have been developed that are scalable and offer a very tight coupling between the processing resources and memory, quite attractive for use as compute servers for multiprogramming and parallel workloads. Process scheduling and memory management, however, remain a challenge to the distributed main memory found on such machines. This paper examines OS scheduling and page migration policies on the performance of these systems.

6 Memory forwarding: enabling aggressive layout optimizations by guaranteeing data relocation

- ◆ Chi-Keung Luk, Todd C. Mowry
May 1999 **ACM SIGARCH Computer Architecture News , Proceedings of the 27th annual international symposium on Computer architecture**
27 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available:  pdf(196.77 KB)  Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)
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By optimizing data layout at run-time, we can potentially enhance the performance of applications by actively creating spatial locality, facilitating prefetching, and avoiding cache misses and false sharing. Unfortunately, it is extremely difficult to guarantee that these optimizations are *safe* in practice on today's machines, since accurately updating pointers to an object requires perfect alias information, which is well beyond the capabilities of the compiler for languages such as C. This paper presents a new technique for optimizing data layout at run-time, which is safe in practice on today's machines.


7 Distributional clustering of English words

- Fernando Pereira, Naftali Tishby, Lillian Lee
June 1993 **Proceedings of the 31st annual meeting on Association for Computational Linguistics**

Linguistics

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(756.61](#)

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Additional Information: [full citation](#), [abst](#)
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We describe and evaluate experimentally a method for clustering words distribution in particular syntactic contexts. Words are represented by the distributions of contexts in which they appear, and relative entropy between distributions is used as the similarity measure for clustering. Clusters are average context distributions derived from the given words according to of cluster membership. In many cases, the cluster ...

8 [A performance evaluation of cluster architectures](#)

 Xiaohan Qin, Jean-Loup Baer

June 1997 **ACM SIGMETRICS Performance Evaluation Review**, **Proc 1997 ACM SIGMETRICS international conference on Measurement modeling of computer systems SIGMETRICS '97**, Volume 2

Publisher: ACM Press


Full text available:  [pdf\(1.65](#)

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Additional Information: [full citation](#), [abst](#)
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This paper investigates the performance of shared-memory cluster-based each cluster is a shared-bus multiprocessor augmented with a protocol for cache coherence across clusters. For a given number of processors, sixteen evaluate the performance of various cluster configurations. We also consider adding a remote shared cache in each cluster. We use Mean Value Analysis cache miss latencies of various types and the ...


9 [Slack: maximizing performance under technological constraints](#)

 Brian Fields, Rastislav Bodík, Mark D. Hill

May 2002 **ACM SIGARCH Computer Architecture News**, **Proceedings annual international symposium on Computer architecture**, **Proceedings of the 29th annual international symposium on architecture ISCA '02**, Volume 30 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available:  [pdf\(1.34](#)

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Additional Information: [full citation](#), [abst](#)
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Many emerging processor microarchitectures seek to manage technology (e.g., wire delay, power, and circuit complexity) by resorting to *non-uniform* resources at multiple quality levels (e.g., fast/slow, bypass paths, multi-processor units, and grid architectures). In such designs, the constraint problem becomes a performance problem, and the challenge becomes designing a *control policy* that mitigates the performance penalty of the non-uniformity ...

Keywords: critical path, slack, performance analysis, program behavior, technological constraints, wire delay, power, circuit complexity, clusters

10 [Analysis of benchmark characteristics and benchmark performance prediction](#)

 Rafael H. Saavedra, Alan J. Smith

November 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14, Number 4
Publisher: ACM Press

Full text available:  [pdf\(1.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citing](#), [index term](#)

Standard benchmarking provides run-times for given programs on given machines, but fails to provide insight as to why those results were obtained (either in terms of program characteristics) and fails to provide run-times for that program on a different machine, or some other programs on that machine. We have developed an independent model of program execution to characterize both machine and program execution. By merging these machine and program characterizations, we can predict program execution times on a given machine.


Keywords: abstract machine performance model, benchmark analysis, execution time prediction, microbenchmarking

11 [Input Devices: Movement model, hits distribution and learning in virtual keyboard](#)

 Shumin Zhai, Alison Sue, Johnny Accot

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**


Publisher: ACM Press

Full text available:  [pdf\(930.16 KB\)](#) Additional Information: [full citation](#), [abstracts](#), [index terms](#)

In a ten-session experiment, six participants practiced typing with an experimental method on an optimized virtual keyboard. Based on a large amount of experimental data, this paper reports the following findings. First, the Fitts-digraph model of virtual keyboards is revised. The format and parameters of Fitts' law previously in virtual keyboards research were incorrect. Second, performance predictions of various layouts are calculated with the new model ...

Keywords: Fitts' law, expanding rehearsal, graphical keyboard, learning computing, on screen keyboard, skill acquisition, soft keyboard, text entry keyboard

12 Trading quality for compile time: ultra-fast placement for FPGAs

 Yaska Sankar, Jonathan Rose

February 1999 **Proceedings of the 1999 ACM/SIGDA seventh international conference on Field programmable gate arrays**

Publisher: ACM Press


Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

13 Efficient placement algorithms optimizing delay for high-speed ECL masterslice

Yasushi Ogawa, Tatsuki Ishii, Yoichi Shiraishi, Hidekazu Terai, Tokinori Iwano, Yuyama, Kyoji Chiba

July 1986 **Proceedings of the 23rd ACM/IEEE conference on Design automation**

Publisher: IEEE Press

Full text available:  [pdf\(610.76 KB\)](#) Additional Information: [full citation](#), [abstracts](#), [index terms](#)


Placement algorithms optimizing signal delay as well as wireability for high-speed masterslice LSI's are proposed. Equivalent constraints of wire length for path delay, and wired-OR are classified according to upper and lower limits. Under such limits, a top-down method utilizing an augmented two-dimensional placement with "scope" and "zone", which are new concepts representing iterative weighted improvement method ...

14 Research sessions: query processing II: Efficient k-NN search on vertically

◆ Arjen P. de Vries, Nikos Mamoulis, Niels Nes, Martin Kersten

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press



Full text available:  pdf(1.26 MB) Additional Information: [full citation](#), [abstracts](#), [index terms](#)

Applications like multimedia retrieval require efficient support for similar data collections. Yet, nearest neighbor search is a difficult problem in high spaces, rendering efficient applications hard to realize: index structures collapse with increasing dimensionality, while sequential search is not an attractive solution for repositories with millions of objects. This paper approaches the problem from a new angle. A solution is sought in an unconventional ...

15 High-cost CFD on a low-cost cluster

Thomas Hauser, Timothy I. Mattox, Raymond P. LeBeau, Henry G. Dietz,
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  pdf(4.00 MB)  Additional Information: [full citation](#), [abstracts](#), [index terms](#)
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Direct numerical simulation of the Navier-Stokes equations (DNS) is an essential tool for the future of computational fluid dynamics (CFD) in engineering applications. DNS requires massive computing resources. This paper presents a new approach to implementing high-cost DNS CFD using low-cost cluster hardware. After describing the DNS CFD code DNSTool, the paper focuses on the techniques and tools developed to customize the performance of a cluster ...

16 On balancing the load in a clustered web farm

◆ Joel L. Wolf, Philip S. Yu

November 2001 **ACM Transactions on Internet Technology (TOIT)**, V

Publisher: ACM Press

Full text available:  pdf(612.40 MB) Additional Information: [full citation](#), [abstracts](#)

KB)citations, index term

In this article we propose a novel, yet practical, scheme which attempts to reduce the load on the servers of a clustered Web farm. The goal in solving this problem is to achieve minimal average response time for customer requests and ultimately achieve maximal customer throughput. The article decouples the problem into two related but distinct mathematical subproblems, one static and one dynamic. We believe this natural decoupling is one of the major contributions of this work.

Keywords: Clustered Web farms, combinatorial optimization, load balancing, resource allocation problems

17 System-level power optimization: techniques and tools

◆ Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Systems**
Volume 5 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(385.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


This tutorial surveys design methods for energy-efficient system-level design of electronic systems consisting of a hardware platform and software layers. We identify three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software for energy-efficient software design and compilation. This survey ...

18 Reducing memory latency via non-blocking and prefetching caches

◆ Tien-Fu Chen, Jean-Loup Baer

September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V**, Volume 27 Issue 9

Publisher: ACM Press

Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

19 Concepts and effectiveness of the cover-coefficient-based clustering method
databases



Fazli Can, Esen A. Ozkarahan

December 1990 **ACM Transactions on Database Systems (TODS)**, Vol

Publisher: ACM Press

Full text available: [pdf\(2.74 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [index terms](#)

A new algorithm for document clustering is introduced. The basic concept, the cover coefficient (CC) concept, provides a means of estimating the number of documents within a document database and related indexing and clustering analytics. The CC concept is used also to identify the cluster seeds and to form clusters with minimum variance. It is shown that the complexity of the clustering process is very low. The retrieval experiments show that the information-retrieval effectiveness is high.

Keywords: cluster validity, clustering-indexing relationships, cover coefficient, document retrieval, retrieval effectiveness

20 Comparing the effectiveness of fine-grain memory caching against page migration in reducing traffic in DSM clusters



An-Chow Lai, Babak Falsafi

July 2000 **Proceedings of the twelfth annual ACM symposium on Parallel architectures**




Publisher: ACM Press

Full text available: [pdf\(105.85 KB\)](#) Additional Information: [full citation](#), [abstracts](#), [index terms](#)

In this paper, we compare and contrast two techniques to improve capacity and reduce traffic in CC-NUMA DSM clusters. Page migration/replication optimizes accesses to a page used by a single processor by migrating the page to the processor that replicates all read-shared pages in the sharers' local memories. R-NUMA optimizes write accesses to any page by allowing a processor to cache that page in its local memory. Page migration/replication requires less hardware cost than R-NUMA.

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**Comparing the decompositions produced by
software clustering algorithms using similarity
measurements**

Mitchell, B.S. Mancoridis, S.
Dept. of Math. & Comput. Sci., Drexel Univ.
Philadelphia, PA;

This paper appears in: **Software Maintenance
Proceedings, IEEE International Conference on**

Publication Date: 2001

On page(s): 744-753

Meeting Date: 11/07/2001 - 11/09/2001

Location: Florence, Italy

ISBN: 0-7695-1189-9

References Cited: 20

INSPEC Accession Number: 7139463

Digital Object Identifier: 10.1109/ICSM.2001

Posted online: 2002-08-06 23:52:57.0

Abstract

Decomposing source code components and reorganizing them into subsystem clusters is an active area of research. Numerous clustering approaches have been proposed in the reverse engineering literature, each one using a different algorithm to identify subsystems. Since different clustering techniques may not produce identical results when applied to the same system, mechanisms that can measure the extent of these differences are needed. Some work to measure similarity between decompositions has been done; this work considers the assignment of source code components to clusters as the only criterion for similarity. We argue that better similarity measurements can be designed if the relationship between the components are considered. The authors present two similarity measurements that overcome some problems in existing measurements. We also make some suggestions on how to identify and deal with source code components that tend to contribute to poor similarity results. We conclude by presenting experimental results, and by highlighting some benefits of our similarity measurements.

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Dotplot: A Program for Exploring Self-Similarity in Millions of Lines of Text and Code - group of 5 »

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KW Church, JI Helfman - Journal of Computational and Graphical Statistics, 1993 - JSTOR

... Suppose that we wanted to **compress** the f-image from N ... n by n cell as shown in the

following **code**. ... useful if there are 168. EXPLORING SELF-SIMILARITY IN MILLIONS ...

Cited by 54 - Web Search - BL Direct

Early Fixation of an Optimal Genetic Code - group of 7 »

SJ Freeland, RD Knight, LF Landweber, LD Hurst - Molecular Biology and Evolution, 2000 - mbe.oupjournals.org

... to **minimize** the effects of errors (eg, mistranslation and mutation) on resulting

proteins. If amino acid **similarity** is measured as polarity, the canonical **code** ...

Cited by 50 - Web Search - BL Direct

The Darwinian Genetic Code: An Adaptation for Adapting? - group of 7 »

SJ Freeland - Genetic Programming and Evolvable Machines, 2002 - Springer

... for an adaptive **code** is that the assignments of amino acids (encoded objects) to

codons (coding units) appear to be organized so as to **minimize** the change in ...

Cited by 13 - Web Search - BL Direct

The Genetic Code Is One in a Million - group of 6 »

SJ Freeland - Journal of Molecular Evolution, 1998 - Springer

❖ it bears little **similarity** to the natural genetic **code** other than in its calculated tMS value (natural **code** ... shaped the genetic **code** to **minimize** the effects ... Cited by 79 - [Web Search](#) - [BL Direct](#)

TOP: a new method for protein structure comparisons and **similarity** searches - group of 2 »

G Lu - Journal of Applied Crystallography, 2000 - [bioinfo1.mbfys.lu.se](#)

... six vari- ables are re@ned to **minimize** the rms ... Once topological **similarity** is found,

the program will browse ... structures according to PDB entry **codes** or @le ...

Cited by 116 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Joint design of fixed-rate source codes and multiresolution channel codes - group of 4 »

AJ Goldsmith, M Effros - Communications, IEEE Transactions on, 1998 - [ieeexplore.ieee.org](#)

... channel followed by an RCPC channel **code** matched to the VQ to **minimize** distortion. ...

To understand the **similarity** in performance of our joint **code** designs, we ...

Cited by 32 - [Web Search](#) - [BL Direct](#)

Square-matrix embeddable space-time block codes for complex signal constellations - group of 6 »

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... time block **codes** is to max- imize the rate and **minimize** the delay ... it would be beneficial

to have as much self-**similarity** as possible in the **code** matrix ...

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conversely, a **code** attaining the bound for total span length, vertices, or edges ...

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dnaresearch.oxfordjournals.org

... 4 Thisnew approach would be expected to **minimize** the risk of ... tRNA
synthetase,

respectively, though KIAA1401 had no **similarity** to any ... 2 by using color
codes. 15 ...

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Schwanke, R.W.
Siemens Corp. Res. Inc., Princeton

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Abstract

The author describes a software tool modularization advice for improv design similarity measure is defined information hiding principle. The n services: clustering, which identifies procedures, and maverick analysis, procedures that appear to be in the already provided useful advice in s projects. The tool will soon incorp method, which allows the tool to le adapting its advice to the architect's experiment demonstrates that the a function can assign procedures to n

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Author Keywords

Not Available

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